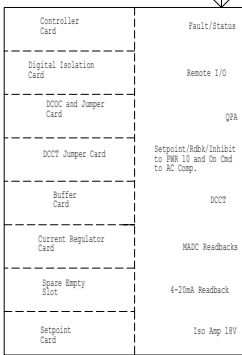


Snake P.S. Block Diagram
Block1.skf
1/10/03

Don't forget to
Convert 4/20mA
to 0-10V on
buffer Card!!!

Snake P.S. 1

3u chassis



See Rack Layout Drawings for exact port #

QPAIC
B1

Yellow QPA1 to port 5A
Blue QPA1 to port 6A
25 pin D

Yellow QPA2 to port 5B
Blue QPA2 to port 6B
25 pin D

To Node Card
Number 6 Port 12

To Beam Permit
Panel, Input #1

Timing
Resolver

J2-25 pin D Female

J6-15 pin D Male

J5-15 pin D Female

120VAC to housekeeping P.S.
(3x16AWG, one is ground)

208VAC feed from Rack TB Strip
5 separate 10AWG wires
(A,B,C,N and Ground)

AC Compartment
(Snake 1 side)

Power Ten p.s.

Snake 1
2 Channel Isolator Brd
for Voltage and Current

Out To MADC

Out To MADC

Out To MADC

Out To MADC

Snake P.S. GND Current Monitoring Circuit

In From Blue Snk-1 RC in QPA

In From Blue Snk-2 RC in QPA

In From Yel Snk-1 RC in QPA

In From Yel Snk-2 RC in QPA

535mcm

SNPS2

QPA1

CB2

CB1

IN

DCCT 9 pin D

J4 15 pin D
P.S. CtL

J5 25pin D
QPAIC

1.4 ohm
500W

100 ohm

0.1uF
500V

To Snake PS
GND Current Mon
Circuit
(9 pin D)

14 AWG

RTDL

Event

Reset

Network

QD1

Dual Gain Card

x10 Single
Gain Card

Digital Output
Card

HVTB

Note:
This Patch Panel handles
2 blue snake p.s.'s
and 2 yellow snake
p.s.'s

HVTB

QD Patch
Panel

DTB (TBS)

LVTB

Yellow

Blue

TB3-9,10

TB4-9,10

TB1-9,10

TB2-9,10

P.S. 1 Current in

P.S. 2 Current in

120VAC to housekeeping P.S.
(3x16AWG, one is ground)

208VAC feed from Rack TB Strip
5 separate 10AWG wires
(A,B,C,N and Ground)

AC Compartment
(Snake 2 side)

Power Ten p.s.

Snake 2
2 Channel Isolator Brd
for Voltage and Current

QPA2

CB2

CB1

IN

DCCT 9 pin D

J4 15 pin D
P.S. CtL

J5 25pin D
QPAIC

1.4 ohm
500W

100 ohm

0.1uF
500V

To Snake PS
GND Current Mon
Circuit
(9 pin D)

14 AWG

Magnet

J1 SNQD01
Voltage Taps

J2 SNQD01
Voltage Taps

R01

B01

R02

B02

R03

B03

R04

B04

J3 SNQD02
Voltage Taps

J4 SNQD02
Voltage Taps

535mcm

SNPS4

200 ohm

200 ohm

535mcm

SNPS3

200 ohm

200 ohm